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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/030,458	08/19/2002	David Huntington	AVX-220	8433

7590 05/08/2003

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EXAMINER	
HA, NGUYEN T	

ART UNIT	PAPER NUMBER
2831	

DATE MAILED: 05/08/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.	Applicant(s)
10/030,458	Huntington et al.
Examiner	**Art Unit**
Nguyen Ha	2831

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on *Aug 19, 2002*.

2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.

3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

4) ☒ Claim(s) *1-7* is/are pending in the application.

4a) Of the above, claim(s) _____ is/are withdrawn from consideration.

5) ☐ Claim(s) _____ is/are allowed.

6) ☒ Claim(s) ~~1~~ 1-6 is/are rejected. DR 5/5/03

7) ☐ Claim(s) 7 is/are objected to. DR 5/5/03

8) ☐ Claims _____ are subject to restriction and/or election requirement.

Application Papers

9) ☐ The specification is objected to by the Examiner.

10) ☐ The drawing(s) filed on _____ is/are a) ☐ accepted or b) ☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.

If approved, corrected drawings are required in reply to this Office action.

12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

13) ☒ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) ☒ All b) ☐ Some* c) ☐ None of:

1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

*See the attached detailed Office action for a list of the certified copies not received.

14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

a) ☐ The translation of the foreign language provisional application has been received.

15) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s). 5
4) ☐ Interview Summary (PTO-413) Paper No(s). _____
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other:

DETAILED ACTION

Specification

1. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

2. The abstract of the disclosure is objected to because on page 32 line 8 & line 17, “comprising” is legal phraseology.

3. Correction is required. See MPEP § 608.01(b).

Claim Objections

4. Claim 7 is objected to under 37 CFR 1.75© as being in improper form because a multiple dependent claim should refer to other claims in the alternative only and/or, cannot depend from

any other multiple dependent claim. See MPEP § 608.01(n). Accordingly, the claim has been further treated on the merits.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless -
>
> (e) the invention was described in-
> (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or
> (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

6. Claims 1-6 are rejected under 35 U.S.C. 102(e) as being anticipated by Kuriyama (5,926,363).

Regarding claim 1, Kuriyama discloses a method of manufacturing solid state capacitors comprising:

- providing an electrically conducting substrate (12);
- providing a pre-form layer (17) of porous conducting material applied to a surface of the substrate;
- forming a plurality of upstanding porous anode bodies (24) and wick bodies by configuring of the preform, each body electrically connected to the substrate;

- forming an electrically insulating layer (15) an the exposed surface area provided by the porous anode bodies;
- forming a conducting layer (18) on the insulating layer on the anode bodies;
- dividing the substrate into capacitor units, each comprising a portion of substrate provided with a porous capacitive body and a wick body, and for each unit (figure 16A);
- providing a cathode terminal (27) in electrical contact with the conducting layer on the capacitive body;
- providing an anode terminal (28) in electrical contact with the substrate portion;
- wherein the cathode terminal is formed on a surface of the capacitive body distal to the substrate portion and the anode terminal is formed on a distal surface of the wick body which anode terminal is adjacent and substantially co-planar with the cathode terminal, with the electrically conducting wick body providing electrical contact between the substrate portion and the anode terminal, so that the capacitors have anode and cathode terminals on a common face (figure 17B).

Regarding claim 2, Kuriyama discloses the wick bodies are allowed to be provided with insulating and conducting layers along with the anode bodies, and wherein an electrical connection through the insulating layer is provided by subsequent removal of the applied layers (figure 17A & 17B).

Regarding claim 3, Kuriyama discloses the dividing of the substrate involves machining or cutting through a plane which passes through the wick bodies, thereby to expose un-coated wick material with which an anode terminal contact may be made (figure 16A).

Regarding claim 4, Kuriyama discloses the removal of layers is carried out on a face of each wick distal to the substrate thereby to expose uncoated wick material with which an anode terminal contact may be made (figure 16).

Regarding claim 5, Kuriyama discloses a conductive material bridge electrically connects the anode terminal and the exposed un-coated wick material (figure 16A).

Regarding claim 6, Kuriyama discloses a solid state capacitor comprising a substrate (12) portion and a capacitive body, which body comprises:

- a porous anode body (24) electrically connected to the substrate portion;
- an electrically insulating layer (15) formed on the anode body surface area, and
- a conducting layer (18) formed on the insulating layer,
- a surface of which capacitive body distal to the substrate portion is provided with a cathode terminal (27), characterized in that an anode terminal is provided adjacent and substantially co-planar with the cathode terminal (figure 17B);
- an electrically conducting wick (17) providing electrical contact between the substrate portion and the anode terminal, thereby providing a capacitor having anode and cathode terminals on a common face, and wherein the wick is formed from the same porous conducting material as the anode body (figure 17A).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nguyen Ha whose telephone number is (703)-308-6023 Monday to Friday from 8:30 to 6:00PM.

Any attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dean Reichard , can be reached on (703) 308-3682. The fax phone number for the organization where this application or proceeding is assigned is (703) 305-3431.

Any inquiry of a general nature or relating to the status of this application should be directed to the group receptionist whose telephone number is (703) 308-0956.

NH

May 2, 2003

Dean A. Reichard 5/5/03

DEAN A. REICHARD
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